

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (CURRENTLY AMENDED) A data communication system comprising a server having a first storage device in which a database, which stores a plurality of data types, is formed, and a plurality of client devices for connecting to said server through a network line, wherein:

each of said plurality of client devices has transmitting means for transmitting a data read request to said server, and

said server has:

access right holding means for previously holding an access right table which indicates types of data to which an access is granted/denied for each of said plurality of client devices with respect to the plurality of the data types in said database;~~access right information indicative of a type of accessible data for each of said plurality of client devices;~~

device identifying means responsive to receipt of a data read request sent from said transmitting means through said network line for identifying one client device which has transmitted the received data read request of said plurality of client devices;

determining means for determining in accordance with the access right ~~table information~~ held in said access right holding means whether or not data corresponding to said received data read request is a type of data accessible from said one client device; and

means for granting an access to the data corresponding to said received data read request in the database of said first storage device to said one client device if a result of the determination by said determining means indicates an accessible type of data.

2. (ORIGINAL) A data communication system according to claim 1, wherein said device identifying means requests a user identification code and a password of said one client device, and identifies said one client device in accordance with the user identification code and the password sent from said one client device.

3. (CURRENTLY AMENDED) A data communication system comprising a server having a first storage device in which a database, which stores a plurality of data types, is formed, and a plurality of client devices for connecting to said server through a network line, wherein:

each of said plurality of client devices has transmitting means for transmitting a data read request to said server, and

said server has:

access right holding means for previously holding an access right ~~table information~~ indicative of types ~~a type~~ of accessible data which each user utilizing said database possesses as an access right with respect to the plurality of the data types in said database;

user identifying means responsive to receipt of a data read request sent from said transmitting means through said network line for identifying a user of one client device which has transmitted the received data read request, of said plurality of client devices;

determining means for determining in accordance with the access right ~~table information~~ held in said access right holding means whether or not data corresponding to said received data read request is a type of accessible data which the user of said one client device possesses as an access right; and

means for granting an access to the data corresponding to said received data read request in the database of said first storage device to said one client device if a result of the determination by said determining means indicates an accessible type.

4. (ORIGINAL) A data communication system according to claim 3, wherein said user identifying means requests a user identification code and a password of said one client device, and identifies the user of said one client device in accordance with the user identification code and the password sent from said one client device.

5. (ORIGINAL) A data communication system according to claim 3, wherein an access right is set for each user in units of user groups.

6. (CURRENTLY AMENDED) A database access method for limiting an access to a database in a data communication system comprising a server having a first storage device in which the database, which stores a plurality of data types, is formed, and a plurality of client devices for connecting to said server through a network line, said method comprising the steps of:

holding in said server an access right table which indicates types of data to which an access is granted/denied for each of said plurality of client devices with respect to the plurality of data types in said database;~~access right information indicative of a type of accessible data corresponding to each of said plurality of client devices in said server;~~

upon receipt of a data read request sent through said network line, identifying one client device which has transmitted the received data read request of said plurality of client devices;

determining in accordance with the access right table ~~information~~ whether or not data corresponding to said received data read request is a type of data accessible from said one client device; and

granting an access to the data corresponding to said received data read request in the database of said first storage device to said one client device if a result of the determination indicates an accessible type of data.

7. (CURRENTLY AMENDED) A database access method for limiting an access to a database, which stores a plurality of data types, in a data communication system comprising a server having a first storage device in which the database is formed, and a plurality of client devices for connecting to said server through a network line, said method comprising the steps of:

holding access right table ~~information~~ indicative of types ~~a type~~ of accessible data which each user utilizing said database possesses as an access right with respect to the plurality of data types in said database;

upon receipt of a data read request sent through said network line, identifying a user of one client device which has transmitted the received data read request of said plurality of client devices;

determining in accordance with the access right ~~information table~~ whether or not data corresponding to said received data read request is a type of accessible data which the user of said one client device possesses as an access right; and

granting an access to the data corresponding to said received data read request in the database of said first storage device to said one client device if a result of the determination indicates an accessible type of data.

8. (CURRENTLY AMENDED) A server having a first storage device in which a database, which stores a plurality of data types, is formed, and connected to a network line to which a plurality of client devices are capable to connect, comprising:

access right holding means for previously holding an access right table which indicates types of data to which an access is granted/denied for each of said plurality of client devices with respect to the plurality of data types in said database; ~~access right information indicative of a type of accessible data corresponding to each of said plurality of client devices;~~

device identifying means responsive to receipt of a data read request sent through said network line for identifying one client device which has transmitted the received data read request of said plurality of client devices;

determining means for determining in accordance with the access right table information held in said access right holding means whether or not data corresponding to said received data read request is a type of data accessible from said one client device; and

means for granting an access to the data corresponding to said received data read request in the database of said first storage device to said one client device if a result of the determination by said determining means indicates an accessible type of data.

9. (CURRENTLY AMENDED) A server having a first storage device in which a database, which stores a plurality of data types, for a plurality of client devices is formed, and connected to a network line to which a plurality of client devices are capable to connect, comprising:

access right holding means for previously holding an access right table information indicative of a type types of accessible data which each user utilizing said database possesses as an access right with respect to the plurality of data types in said database;

user identifying means responsive to receipt of a data read request sent through said network line for identifying a user of one client device which has transmitted the received data read request of said plurality of client devices;

determining means for determining in accordance with the access right table information held in said access right holding means whether or not data corresponding to said received data read request is a type of accessible data which the user of said one client device possesses as an access right; and

means for granting an access to the data corresponding to said received data read request
in the database of said first storage device to said one client device if a result of the
determination by said determining means indicates an accessible type of data.